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PERSONAL AND CONFIDENTIAL

To: Examiner Kagnev Gebreyesus

From: Gary Baker

USPTO, Group 1656

Fax: 571 273-2937 and x8300

Date: August 13, 2008

Phone:

Pages: 2

Re: USSN 10/563,656

our file: 54A-000510US

☐ Urgent ☒ For Review ☐ Please Comment ☐ Please Reply ☐ Please Recycle

Dear Examiner Gebreyesus,

Attached is a proposed amendment to Independent claim 1 for discussion in the above-cited case.

I note that the new limitations focus claim 1 on the invention taught and practiced. The percent identity and required G:C base pair at position 10:28 distinguish the composition and provide enabling structural/functional aspects in light of the original specification.

I have left a message on your phone requesting an interview in this case. Please grant the interview and let me know what would be a good time for you.

Thanks,

Gary Baker 510 769-3510

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Appl. No. : 10/563,656
 Applicant : J. Christopher Anderson, et al.
 Filed : June 22, 2006
 TC/A.U. : 1656
 Examiner : Kagnew H. Gebreyesus
 Docket No. : 54A-000510US
 Customer No. : 22798

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Amendment for Discussion in Interview

1. (Proposed amendment) A composition comprising an orthogonal glutamyl-tRNA (glutamyl O-tRNA) ~~derived from one or more archaeal tRNAs,~~ wherein the glutamyl O-tRNA comprises a polynucleotide sequence at least 80-95% identical to SEQ ID NO.: 67, and wherein the glutamyl O-tRNA comprises a G:C base pair at position corresponding to 10:28;

and wherein the glutamyl O-tRNA suppresses in the presence of a glutamyl-tRNA synthetase ~~derived from an RS~~ selected from the group consisting of: an *Archaeoglobus fulgidus* synthetase, a *Methanosarcina mazei* synthetase, a *Methanobacterium thermoautotrophicum* synthetase, and a *Pyrococcus horikoshii* synthetase.

Dear Examiner Gebreyesus,

I believe the cited consensus O-tRNA Seq 67 ranges from about 92% to 97% identity (not counting the selector anticodon) with the tested functional O-tRNAs. G:C at 10:28 is a consensus structure for Gln O-tRNAs associated with functionally.

Gary

